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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/523,350	03/10/2000	Hiroyuki Kino	36856.283	5246	
:	7590 01/23/2003				
Joseph R Keating Esquire Keating & Bennett LLP 10400 Eaton Place Suite 312			EXAMINER		
			KIM, PAUL D		
Fairfax, VA 22030			ART UNIT	PAPER NUMBER	
			3729		
			DATE MAILED: 01/23/2003	DATE MAILED: 01/23/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application N. Office Action Summary Examiner Examin								
## Examiner Paul D Kim 3729 ## The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. after \$30, 69 MONTHS from the mailing date of this communication. 17,30(a), In no event, however, may a righly be timely filled and the \$30, 69 MONTHS from the mailing date of this communication. 17,30(a), In no event, however, may a righly be timely filled and the \$30, 69 MONTHS from the mailing date of this communication. 18 MONTHS from the mailing date of this communication. 18 MONTHS from the mailing date of this communication. 18 MONTHS from the mailing date of this communication. 18 MONTHS from the mailing date of the scanning mailing from the fill mailing date of the communication to secone ABAMONED; (19 U.S. C. § 133) or Any right precised by the Official entire three more dates than the mailing date of this communication. 18 MONTHS from the mailing date of the communication to secone ABAMONED; (19 U.S. C. § 133) or Any right precised by the Discision in the Interest time application to secone ABAMONED; (19 U.S. C. § 133) or Any right precised by the Discision from the mailing date of the communication. 18 MONTHS from the mailing date of the communication of the communication of the communication of the communication of the communication. 19 MONTHS from the mailing date of the communication of the communication. 19 MONTHS from the mailing date of the communication. 19 MONTHS from the mailing date of the communication. 19 MONTHS from the mailing date of the communication. 19 MONTHS from the mailing date of the mailing date of the date of t			Application N .	Applicant(s)	Ch			
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3	1)⊠	Responsive to communication(s) filed on 25 l	<u>November 2002</u> .					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1,2,5,6,8,10-16,18 and 20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1,2,5,6,8,10-16,18 and 20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) Notice of References Cited (PTO-892) 2) Notice of References Cited (PTO-149) Paper No(s) 16. 5) Notice of Informal Patent Application (PTO-152) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 16. 6) Other:	2a) <u></u>	This action is FINAL . 2b)⊠ Th	is action is non-final.					
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DETAILED ACTION

1. This office action is a response to the RCE filed on 11/25/2002.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2, 6, 8, 10-14, 16, 18 and 20 arerejected under 35 U.S.C. 103(a) as being unpatentable over Applicant Admitted Prior Art in view of Yasuda et al. (JP-4367569 A).

Fig. 5 of Applicant Admitted Prior Art teaches a method of manufacturing a flattened-ring magnetic core comprising steps of: providing a plurality of flattened-ring compact bodies (21) made of a magnetic material having holes (22); arranging the plurality of flattened-ring compact bodies that a axis of each of the flattened-ring compact bodies is arranged in horizontally; and firing the flattened-ring compact bodies (lines 16-26 of page 1 in specification).

However, Applicant Admitted Prior Art does not disclose a step of attaching a power made of an organic to a surface of the flattened-ring compact bodies and vaporized during the firing step. Yasuda teaches a process of making an inserting sheet for firing ceramic comprising steps of inserting sheet for interposing upon firing ceramic mouldings comprises a base sheet formed from shaped inorganic powder (2) with an

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organic powder binder (3) and firing the ceramic mouldings with the interposing sheet and the organic powder is vaporized for preventing bond-sticking during the firing step and enabling recovering of fired mouldings separately. Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify a flattened-ring compact bodies of Applicant Admitted Prior Art by attaching an organic powder on the surface of the composite structure as taught by Yasuda for the purpose of preventing bond-sticking during the firing step and enabling recovering of fired mouldings separately.

Regarding claims 8, 10, 16, 18 and 20: The size of the particles of the inorganic metallic powder and the shape of the flattened-ring compact bodies would have been an obvious matter of design choice to use the desirable materials and shapes.

4. Claims 5 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant Admitted Prior Art in view of Yasuda, and further in view of Shirahata (US PAT. 6,005,468).

Applicant Admitted Prior Art, modified by Yasuda, teaches all the claimed invention exception of a bar attached each of a pair of sides of the stacked flattened-ring compact bodies. Fig. 16 (a) of Shirahata '468 shows a bar (64) attached each side of flattened-ring compact bodies (2A,2B,2C) for holding the compact bodies. Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify a flattened-ring compact bodies of Applicant Admitted Prior Art, modified by Yasuda, by attaching a bar to the flattened-ring compact bodies

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as taught by Shirahata '468 for the purpose of maintaining a stable condition of the flattened-ring compact bodies to prevent falling off during the manufacturing process.

Response to Arguments

5. Applicant's arguments filed 11/25/2002 have been fully considered but they are not persuasive. Applicants argue that the prior art of record fails to disclose the claimed invention such as applying an organic powder, which is vaporized during the firing step and separating the compact bodies. Examiner traverses that Yasuda teaches an organic powder binder that is dispersed during the firing process. Yasuda also teaches that even though the organic powder binder is dispersed during the firing process, the inorganic powder remains for preventing bond-sticking and enabling the separation of the fired mouldings easily.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul D Kim whose telephone number is 703-308-8356. The examiner can normally be reached on Tuesday-Friday between 7:00 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 703-308-1789. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-9835 for regular communications and 703-305-9835 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-5648.

pdk January 17, 2003

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